10/8/911

Naoko KIDA et al. Atty. Dkt.: Q95279 Preliminary Amendment

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

		•		161	7 7	
LISTING OI	CLAIMS	,		102 7		
	(original):	A method for engineering cartilage	tissue by three-dimensiona	lly + male	ivils	
culturing bone marrow cells in a simulated microgravity environment.						
(original): The method according to claim 1, wherein the simulated microgravity						
environment provides gravity that is-1/10 to 1/100 of the ground gravity to an object on a time-						
average basis	7	(02 17	PZZ 5 1690 7 - Uhswi	hut Coledon	<i>"</i> "	
$\left\langle \left\langle \right\rangle \right\rangle$	•	amended): The method according to	o claim 1-or-2, wherein the			
simulated microgravity environment is attained with the use of a bioreactor that realizes a (0) 727						
simulated microgravity environment on the earth by compensating the ground-gravity by with						
the stress resulting from rotation.						
(A.)	(original):	The method according to claim 3,	wherein the bioreactor that r	ealizes .	722	
a simulated microgravity environment on the ground is a uniaxial rotary bioreactor;						
5.	(original):	The method according to claim 4, v	wherein the bioreactor that r	ealizes 2		
a simulated m	icrogravity	environment on the ground is a Rot	ating Wall Vessel (RWV)	1 t.	20	
bioreactor.						

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	laim 5, wherein culture is conducted by
Cymplox when a 5-cm RWV vessel is used John Naul	1chr 650 ed 6 35-40
7. (currently amended): The method accompany wherein culture is conducted by adding TGF-β and/or	ording to any one of claims 1 to 6claim 1, 43,8530 Mot 722 r dexamethasone to a culture medium. Col41n 3-4
wherein bone marrow cells are two-dimensionally cu	ording to any one of claims 1 to 7 claim 1, Itured to confluence, subcultured, and then
Cultured in a simulated microgravity environment	
	ording to any one of claims 1 to 8claim 1,
engineered cartilage tissue.	14 (02 + 6
	6-10 Cd5 In5-1 4 monslayer mat
.Col	4 mans cal
102 1-5, 7-9	1722 = 1650
(03	112 - 2 - 60
	1× 10-2= 0.01